


COMMERCIAL FEEDING STUFFS

Report for 1967

J. GORDON HANNA



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Chapter 428a of the General Statutes of Connecticut, relative to Commercial and Customer-Formula Feeds, became effective January 1, 1966 and conforms in general with the uniform state feed bill recommended by the Association of American Feed Control Officials and the American Feed Manufacturers Association.

It imposes on the Station: 1) all duties connected with the annual registration of feeds offered for sale in the State, 2) the collection of samples for analysis, 3) the analysis of all samples so collected, 4) the preparation and publication annually of pertinent information on the results of the analyses, and 5) the responsibility for rules and regulations for enforcement of the provisions of the law.

This feed report is issued in the same form as that for the previous year. It is divided into three tables. In the first table are listed the number of samples from each manufacturer analyzed for protein, fat, and fiber; the number of deficiencies for each; and the average per cent of claims for each component. Because the fiber claims are maxima, the values for per cent of claims are less than 100 if the guarantees are met. Similar data for vitamin carriers are listed in the second table and for medicants in medicated feeds in the third table.

The deficiencies noted are based on tolerances of 0.75 per cent for protein and fiber, 0.25 per cent for fat, and 20% of guarantee for drugs.

An innovation suggested by Dr. P. E. Waggoner was the use of computer programs to make the analytical calculation, to prepare the reports of analysis results for manufacturers and dealers, and to compile this bulletin. The programs were written by Dr. Waggoner and put into practice by R. E. West using the facilities of the Yale Computer Center.

Analytical work was done by Helen Kocaba, Werner Mueller, Sherman Squires and Raymond West; biological assays by Lester Hankin, Mary Ann Rogers, and George Smith; and microscopic examinations by Lois Hornig. Richard Nichols performed the sampling.

COMPLIANCE OF 1967 FEED SAMPLES WITH GUARANTEES

Manufacturer	No. of guarantees				Samples deficient			Average % of claims			
	No. of Samples	Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
Agway, Inc.	105	100	100	100	300	6	4	0	108	128	68
Albers Milling Co.	6	6	6	6	18	0	0	0	107	121	72
Allied Mills, Inc.	23	23	23	23	69	0	3	0	110	119	70
The Amburgo Co., Inc.	1	1	1	1	3	0	0	0	107	175	9
American Cyanamid Co.	2	1	0	0	1	0	0	0	101	0	0
Archer Daniels Midland Co.	1	1	1	1	3	0	0	0	105	179	72
E. R. Bacon Grain Co.	1	1	1	1	3	0	0	0	138	144	79
Beacon Feeds	24	24	24	24	72	0	1	0	105	120	67
Beacon Feed Service	2	2	2	2	6	0	0	0	103	119	78
The Borden Co.	1	1	1	1	3	0	0	0	118	118	58
Brown Forman Distillers Corp.	3	3	3	3	9	2	0	1	104	113	90
B. & W. Canning Co., Inc.	1	1	1	1	3	0	0	0	104	119	76
By-Products, Inc.	1	1	1	1	3	0	0	0	110	98	33
The A. B. Caple Co.	1	1	1	1	3	0	0	0	110	150	75
Cargill, Inc.	1	1	1	1	3	0	0	0	250	299	0
Central Conn. Coop Farmers Assn.	15	15	15	15	45	0	0	0	105	116	70
Central Soya	13	13	13	13	39	0	1	0	103	139	69
Cherry Taylor Flour Mills	1	1	1	1	3	0	0	0	127	106	79
Clinton Corn Processing Co.	1	1	1	1	3	0	0	0	113	219	80
Conn. Bi-Products, Inc.	2	2	2	2	6	0	0	0	108	571	49

Corenco Corp.	1	1	1	1	3	0	0	0	100	184	69
Corn Products Co.	1	1	1	1	3	0	0	0	200	142	56
Dawnwood Farms, Inc.	1	1	1	1	3	0	0	0	102	108	266
Derby Feed Store	1	1	1	1	3	0	0	0	104	100	100
Dow Brewery, Ltd.	3	1	1	1	3	0	0	0	100	112	86
E. I. DuPont & Co., Inc.	1	1	0	1	2	0	0	0	100	0	19
Wilbur-Ellis Co.	1	1	1	1	3	0	0	0	108	123	4
John W. Eshelman & Sons	42	41	41	41	123	2	3	0	109	151	75
Farm Bureau Assn.	8	8	8	8	24	1	1	0	103	107	82
Farmers Feed Co.	1	1	1	1	3	0	0	0	131	108	63
Florida Citrus Cannerys Coop.	1	1	1	1	3	0	0	0	113	134	73
Foremost Dairies, Inc.	2	2	2	1	5	0	0	0	112	176	79
The Great A & P Tea Co. (In.)	1	1	1	1	3	0	0	0	186	115	50
The Great A & P Tea Co. (Mn.)	1	1	1	1	3	0	0	0	100	113	67
Hales & Hunter Co.	20	20	20	20	60	0	0	0	105	142	56
Peter Hand Foundation, Inc.	1	1	1	1	3	0	0	0	104	112	61
Hayward, Inc.	1	1	1	1	3	0	0	0	111	177	67
Hi-Acres Concentrate, Inc.	1	1	1	1	3	0	0	0	100	151	82
H. P. Hood & Sons, Inc. (Fl.)	1	1	1	1	3	0	0	0	108	100	79
H. P. Hood & Sons, Inc. (Ma.)	1	1	1	1	3	0	0	0	109	101	61
E. C. & W. L. Hopkins, Inc.	11	9	9	9	27	1	0	2	108	142	86
International Milling Co., Inc.	2	2	2	2	6	0	0	0	131	168	59
I. S. Joseph Co., Inc.	2	2	2	2	6	0	0	0	134	266	82
Kellogg Co. of Canada, Ltd.	1	1	1	1	3	0	0	0	114	101	77
Keystone Dehydrators	1	1	1	1	3	0	0	0	102	104	96
Krause Milling Co.	1	1	1	1	3	0	0	0	122	115	63
Kuder Pulp Sales Co.	1	1	1	1	3	0	0	0	108	151	73

Manufacturer	No. of guarantees					Samples deficient			Average % of claims		
	No. of Samples	Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
Libner Grain Co., Inc.	1	1	1	1	3	0	0	0	114	125	92
Machnickis Grain Store	3	2	2	2	6	0	0	0	114	101	72
Maple Leaf Mills, Ltd.	1	1	1	1	3	0	0	0	114	119	67
Maxon Mills, Inc.	3	3	3	3	9	0	1	0	111	104	65
Mayflower Mills	1	1	1	1	3	0	0	0	109	123	71
Milk Specialties, Inc.	2	2	2	2	6	0	1	0	101	98	44
Minnesota Linseed Oil Co.	2	2	2	2	6	0	0	0	100	200	73
Molsons Brewery, Ltd.	1	1	1	1	3	0	0	0	115	98	75
Mowat Wilson & Co.	1	1	1	1	3	0	0	0	132	133	79
National Alfalfa Dehydrating & Milling Co.	1	1	1	1	3	0	0	0	113	119	85
National Biscuit Co.	1	1	1	1	3	0	0	0	110	128	69
Nopco Chemical Co.	4	4	4	4	12	0	0	0	1138	408	77
Northern Ohio Sugar Co.	1	1	0	1	2	0	0	0	112	0	75
Ogden Grain Co.	39	38	36	36	110	0	4	0	105	113	83
Ogilvie Flour Mills Co., Ltd.	1	1	1	1	3	0	0	0	112	142	85
Ohio Blenders, Inc.	1	1	1	1	3	0	0	0	114	219	86
Parrish & Heimbecker Co.	1	1	1	1	3	0	0	0	114	131	99
Pasco Packing Co.	2	2	2	2	6	0	1	0	102	99	73
Pierce Grain Corp.	2	1	1	1	3	0	0	0	200	559	96

The Pillsbury Co.	1	1	1	1	3	0	0	0	115	100	84
Pittsburg Brewing Co.	2	2	2	2	6	0	0	0	118	130	78
Point Judith Fish Coop	1	1	0	0	1	0	0	0	120	0	0
The Quaker Oats Co.	3	3	3	3	9	0	0	0	120	121	74
The Quaker Oats Co. of Canada	2	2	2	2	6	0	0	0	152	169	71
Ralston Purina Co.	83	82	82	82	246	1	4	0	106	143	57
Reading Milling Co., Inc.	2	2	2	2	6	0	0	0	108	127	86
Rytman Feed Co.	4	4	4	4	12	2	1	1	96	187	82
Wolf Savitsky & Sons, Inc.	9	8	8	8	24	0	1	0	116	126	70
Schenley Distillers, Inc.	1	1	1	1	3	0	0	0	114	151	53
Sherwood Feed Mills, Inc.	2	2	2	2	6	0	0	0	115	158	74
The Sherwin Williams Co.	2	2	2	2	6	0	0	0	103	236	78
A. E. Staley Mfg. Co.	2	2	2	2	6	0	0	0	107	664	69
Strathroy Flour Mills, Ltd.	1	1	1	1	3	0	0	0	131	114	79
Suni Citrus Products Co.	1	1	1	1	3	0	0	0	113	119	61
Swift & Co.	2	2	2	2	6	0	0	0	104	319	88
Tropicana Products, Inc.	1	1	1	1	3	0	0	0	108	275	19
United Coop Farmers, Inc.	20	19	19	19	57	2	1	0	106	141	63
Universal Grain Co. of New Jersey	1	1	1	1	3	0	1	0	123	64	50
H. K. Webster, Inc.	44	40	39	39	118	0	2	0	104	116	76
Williams Milling Co.	2	2	2	2	6	0	0	0	124	121	50
Wilsons Corn Products, Inc.	3	3	3	3	9	1	0	0	99	135	64
Wirthmore Feeds, Inc.	38	38	38	38	114	0	4	0	110	113	72
Totals	609	588	581	582	1751	18	34	4	115	138	69

VITAMIN CARRIERS

Manufacturer	No. of Samples	No. of Guarantees			
		Vitamin D	Panto- thenic	Niacin	Ribo- flavin
Agway, Inc. ¹	1	0	1	1	1
Commercial Solvents Corp. ²	8	6	7	7	7
Dawes Laboratories, Inc. ³	1	1	1	1	1
Drew Chemical Corp.	1	1	0	0	0
Peter Hand Foundation, Inc.	1	1	0	0	0
Hoffman-Laroche, Inc. ⁴	9	9	8	8	8
Nopco Chemical Co. ⁵	4	4	3	3	3
Chas. Pfizer & Co., Inc. ⁶	6	6	5	6	6
Syntha Laboratories ⁷	2	1	1	2	1
Ultra-Life Laboratories, Inc. ⁸	1	1	1	1	1
Whitmoyer Laboratories, Inc. ⁹	5	5	4	4	4
	39	35	31	33	32

¹ Folic Acid: 1 guaranty, no deficiency; 114% of claim

Thiamine: 1 guaranty, no deficiency; 91% of claim

Vitamin B₁₂: 1 guaranty, no deficiency; 103% of claim

² Folic Acid: 2 guarantees, 1 deficiency; 66% of claim (ave.)

Vitamin B₁₂: 7 guarantees, 1 deficiency; 96% of claim (ave.)

³ Vitamin B₁₂: 1 guaranty, no deficiency; 94% of claim

⁴ Folic Acid: 2 guarantees, no deficiencies; 105% of claim (ave.)

Vitamin B₁₂: 8 guarantees, 1 deficiency; 101% of claim (ave.)

⁵ Vitamin B₁₂: 3 guarantees, 1 deficiency; 118% of claim (ave.)

⁶ Folic Acid: 1 guaranty, no deficiency; 80% of claim

Vitamin B₁₂: 6 guarantees, 1 deficiency; 106% of claim (ave.)

⁷ Vitamin B₁₂: 2 guarantees, no deficiencies; 88% of claim (ave.)

⁸ Vitamin B₁₂: 1 guaranty, no deficiency; 86% of claim

⁹ Vitamin B₁₂: 1 guaranty, no deficiency; 83% of claim

VITAMIN CARRIERS

Total no. of guarantees	Samples deficient				Average % of claims		
	Vitamin D	Panto- thenic acid	Niacin	Ribo- flavin	Panto- thenic acid	Niacin	Ribo- flavin
3	0	1	0	1	57	88	136
27	1	1	1	1	79	87	89
4	0	0	0	0	83	85	96
1	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0
33	1	2	1	0	91	94	98
13	0	0	0	0	84	93	101
23	0	0	0	0	92	93	100
5	0	0	1	0	81	106	99
4	0	0	0	0	83	109	113
<u>17</u>	<u>0</u>	<u>3</u>	<u>0</u>	<u>0</u>	<u>78</u>	<u>99</u>	<u>95</u>
131	2	7	3	2	84	94	98

Guarantees deficient - 10.6%

1967 MEDICATED FEED MEDICANTS

Manufacturer	No. of Samples	Medicant	No. of guarantees	No. of deficiencies	Average % of claims
Agway, Inc.	35	Amprolium	6	2	118
		Arsanilic acid	15	1	92
		Chlortetracycline hydrochloride	4	0	89
		Furazolidone	1	1	66
		Nicarbazin	2	0	106
		3-Nitro-4-Hydroxyphenylarsonic acid	3	1	87
		4-Nitrophenylarsonic acid	1	0	108
		Oxytetracycline hydrochloride	5	0	94
		Sulfaquinoxaline	1	0	93
		p-Ureidobenzenearsonic acid	1	0	94
Albers Milling Co.	1	Zoalene	1	0	86
		Oxytetracycline hydrochloride	1	0	96
Allied Mills, Inc.	3	Amprolium	1	0	105
		Arsanilic acid	1	0	94
		Chlortetracycline hydrochloride	1	0	88
American Cyanamid Co.	1	Chlortetracycline hydrochloride	1	0	91
Beacon Feeds	5	Amprolium	2	0	115
		Arsanilic acid	1	0	98
		Chlortetracycline hydrochloride	1	0	86
		Nicarbazin	1	0	83

				Commercial Feeding Stuffs	
Central Conn. Co-op Farmers' Association, Inc.	3	Amprolium	1	1	0
		Chlortetracycline hydrochloride	1	0	91
		Furazolidone	1	0	90
Central Soya	7	Amprolium	1	0	114
		Arsanilic acid	1	0	95
		Furazolidone	2	0	99
		3-Nitro-4-Hydroxyphenylarsonic acid	2	0	86
		Oxytetracycline hydrochloride	1	0	90
		Sulfaquinoxaline	2	0	82
Dawnwood Farms, Inc.	1	Chlortetracycline hydrochloride	1	1	10
Derby Feed Store	1	Sulfaquinoxaline	1	0	97
John W. Eshelman & Sons	3	Amprolium	1	0	98
		Oxytetracycline hydrochloride	1	0	91
		p-Ureidobenzenearsonic acid	1	0	87
Foremost Dairies	1	Chlortetracycline hydrochloride	1	0	93
Hales & Hunter Co.	6	Arsanilic acid	4	0	100
		Chlortetracycline hydrochloride	1	0	88
		Furazolidone	1	0	100
Peter Hand Foundation, Inc.	1	Chlortetracycline hydrochloride	1	0	88
H. P. Hood & Sons, Inc.	1	Chlortetracycline hydrochloride	1	0	88
Milk Specialties, Inc.	2	Chlortetracycline hydrochloride	1	0	84
		Oxytetracycline hydrochloride	1	0	93

Manufacturer	No. of Samples	Medicant	No. of guarantees	No. of deficiencies	Average % of claims
Ogden Grain Co.	5	Amprolium	3	0	104
		Arsanilic acid	1	1	0
		Chlortetracycline hydrochloride	1	0	91
Ralston Purina Co.	18	Amprolium	4	0	106
		Arsanilic acid	2	0	105
		Chlortetracycline hydrochloride	3	0	94
		Furazolidone	2	0	98
		Nicarbazin	1	0	90
		3-Nitro-4-Hydroxyphenylarsonic acid	2	0	99
		4-Nitrophenylarsonic acid	2	0	90
		Oxytetracycline hydrochloride	1	0	94
		Sulfaquinoxaline	1	0	82
		Zoalene	3	0	103
Rytman Feed Co.	1	Chlortetracycline hydrochloride	1	0	91
United Cooperative Farmers, Inc.	4	Amprolium	1	0	89
		Chlortetracycline hydrochloride	1	0	93
		Furazolidone	1	0	81
		Zoalene	1	0	89

H. K. Webster Co.	9	Arsanilic acid	1	0	110
		Furazolidone	3	2	45
		4-Nitrophenylarsonic acid	1	0	90
		Oxytetracycline hydrochloride	1	0	91
		Sulfaquinoxaline	1	1	64
		Zoalene	3	0	104
Wirthmore Feeds, Inc.	12	Amprolium	3	1	117
		Arsanilic acid	2	0	102
		Chlortetracycline hydrochloride	2	0	90
		Furazolidone	1	0	96
		4-Nitrophenylarsonic acid	2	1	80
		Oxytetracycline hydrochloride	1	0	91
		Sulfaquinoxaline	1	0	93
			<u>1</u>	<u>0</u>	
Totals	120		131	13	

% of guarantees deficient: 9.9

Overall average % of claims: 93

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